

**WHAT IS CLAIMED IS:**

1. A pontoon stabilized aluminum water craft comprising:
  - a. a truncated "U" shaped hull portion having a longitudinal axis, a length, a top surface, and a bottom surface, said hull portion comprising:
    - i. a first rectangular sheet of aluminum having a top surface and a bottom surface;
    - ii. a first horizontal section having a first port side, a first starboard side and a stern;
    - iii. a second bow section contiguous to said first horizontal section, said second bow section having a first positive acclivity, a second port side, a second starboard side and a bow;
    - iv. a plurality of parallel and equally spaced apart concave-shaped reinforcing ribs pressed by pressing means into said top surface of said first rectangular sheet of aluminum;
  - b. a keel member fixed by fixing means to said bottom surface of the hull portion along said longitudinal axis; and,

- c. a plurality of cylindrical pontoon members fixed by fixing means to the hull portion wherein said plurality of cylindrical pontoon members are adapted to provide buoyancy and stability to said water craft.
- 2. The water craft as claimed in claim 1, wherein said fixing means comprises a welding process suitable for welding aluminum.
- 3. The water craft as claimed in claim 1, wherein the hull portion is fabricated from at least two rectangular sheets of aluminum fixed together by fixing means along said keel.
- 4. The water craft as claimed in claim 1, wherein said plurality of cylindrical pontoon members comprises:
  - a. a first port side pontoon member having a stern end and a bow end, wherein said first port side pontoon member is fixed by fixing means to said first port side of the hull portion first horizontal section;
  - b. a first starboard side pontoon member having a stern end and a bow end, wherein said first starboard side pontoon member is fixed by fixing means to said first starboard side of the hull portion first horizontal section;

- c. a second port side pontoon member having a stern end and a bow end, wherein said second port side pontoon member is fixed by fixing means to said second port side of said second bow section;
  - d. a second starboard pontoon member having a stern end and a bow end, wherein said second starboard member is fixed by fixing means to said second starboard side of the second bow section; and,
  - e. a bow pontoon member having a port end and a starboard end, wherein said bow pontoon member is oriented across said bow and perpendicular to the longitudinal axis of the hull portion.
- 5. The water craft as claimed in claim 4, wherein the plurality of cylindrical pontoon members are fixed together, wherein:
  - a. said second port side pontoon member stern end is fixed by fixing means to said first port side pontoon member bow end, and wherein a bulkhead plate is fixed by fixing means between the second port side pontoon member stern end and the first port side pontoon member bow end;
  - b. said second starboard side pontoon member stern end is fixed by fixing means to said first starboard side pontoon member bow end, and wherein a bulkhead plate is fixed by fixing means between the second starboard side pontoon member and the first starboard side pontoon member bow end,

- c. said port end of said bow pontoon member is fixed by fixing means to said bow end of said second port side pontoon member, and wherein a bulkhead plate is fixed by fixing means between the port end of the bow pontoon member and the bow end of the second port side pontoon member; and,
  - d. said starboard end of the bow pontoon member is fixed by fixing means to said bow end of the second starboard side pontoon member, and wherein a bulkhead plate is fixed by fixing means between the starboard end of the bow pontoon member and the bow end of the second starboard side pontoon member.
- 6. The water craft as claimed in claim 5, wherein said stern end of the first starboard side pontoon member is sealed by a domed cap bulkhead plate fixed by fixing means to the stern end of the first starboard side pontoon member by fixing means, and further wherein said stern end of the first port side pontoon member is sealed by a domed cap bulkhead plate fixed by fixing means to the stern end of the first port side pontoon member.
- 7. The water craft as claimed in claim 6 wherein said plurality of pontoon members fixed together form a truncated "U"-shaped floatation collar, said collar being segmented, un-pressurized, water-tight and air filled.

8. The water craft as claimed in claim 7, wherein said flotation collar is fixed by fixing means to the hull portion of the water craft thereby providing for enhanced buoyancy and stability to the water craft.
9. The water craft as claimed in claim 8, wherein the water craft further includes a transom member fixed to the stern of the hull portion by fixing means.
10. The water craft as claimed in claim 9, wherein the first port side pontoon member has a first longitudinal axis, and wherein the first starboard side pontoon member has a second longitudinal axis, and wherein said first longitudinal axis and said second longitudinal axis are parallel and co-planer, and wherein the first longitudinal axis and the second longitudinal axis possess a second positive acclivity from the horizontal so that the first port side pontoon member and the first starboard side pontoon member are slightly positively inclined from their respective stern ends to their respective bow ends, and wherein said second acclivity is adapted to promote smooth splash-free passage of the water craft over water.
11. The water craft as claimed in claim 10, wherein the second port side pontoon member has a third longitudinal axis, and wherein the second starboard side pontoon member has a fourth longitudinal axis, and wherein said third longitudinal axis is parallel to and co-planer with said fourth longitudinal axis, and wherein the third longitudinal axis and the fourth longitudinal axis have a third positive acclivity with respect to the horizontal, and wherein said third positive acclivity is greater than the second positive

acclivity but less than the first positive acclivity so that the bow pontoon member does not obscure the forward vision of the water craft operator.

12. The water craft as claimed in claim 11, wherein each of the cylindrical pontoon members of the plurality of cylindrical pontoon members are fabricated from a second rectangular sheet of aluminum, said second sheet having:

- a. a predetermined width and a predetermined length, said predetermined length and said predetermined width being proportional to said length of the hull portion;
- b. a first side having said predetermined width;
- c. a second side having the predetermined width, said second side opposite said first side;
- d. a third side having said predetermined length;
- e. a fourth side having the predetermined length, said fourth side opposite said third side;
- f. a top surface; and,
- g. a bottom surface.

13. The water craft as claimed in claim 12 wherein a plurality of structural features are added to the second sheet, said structural features comprising:
- a. a first flechette formed along said first side by bending the first side into said first flechette, wherein the first flechette has a first stem and a first barb;
  - b. a second flechette formed along said second side by bending the second side into said second flechette, said second flechette having a second stem and a second barb, wherein said second barb is facing away from said first barb;
  - c. a first reinforcing rib pressed by pressing means along the predetermined width of the sheet and into said top surface of the sheet, said first reinforcing rib located adjacent to said first flechette;
  - d. a second reinforcing rib pressed by pressing means into the top surface of the sheet, said second reinforcing rib parallel to the first reinforcing rib, wherein the second reinforcing rib located adjacent to said second flechette;
  - e. a third reinforcing rib pressed by pressing means into the top surface of the sheet, said third reinforcing rib parallel to the first and the second reinforcing ribs, wherein the third reinforcing rib is positioned midway between the first side and the second side;

- f. a fourth reinforcing rib pressed by pressing means into the top surface of the sheet, said fourth reinforcing rib parallel to the first, second and third reinforcing ribs, the fourth reinforcing rib positioned midway between the third reinforcing rib and the first flechette;
- g. a fifth reinforcing rib pressed by pressing means into the top surface of the sheet, said fifth reinforcing rib parallel to the first, second, third, and fourth reinforcing ribs, the fifth reinforcing rib located at a point that is one third the distance between said mid point and said second flechette; and,
- h. a sixth reinforcing rib pressed by pressing means within the top surface of the sheet, said sixth reinforcing rib parallel to the first, second, third, fourth and fifth reinforcing rib, the sixth reinforcing rib located at a point two thirds the distance between said mid point and said second flechette.

14. The water craft as claimed in claim 13 wherein subsequent to the formation of the structural features, the second sheet is rolled by rolling means into a cylinder such that the first flechette and the second flechette are adjacent to each other and fixed together by fixing means, and such that the first barb and the second barb form an arrow-shaped hook adapted for receiving said fender, and such that the top surface of the sheet becomes the inside surface of the cylinder and the bottom surface of the sheet becomes the outside surface of the cylinder.

15. The water craft as claimed in claim 14, wherein said pressing means comprises a press comprising:

- a. a top die portion comprising a plate and a rod fastened to said plate, wherein said rod is used to press the plurality of parallel and equally spaced apart concave-shaped reinforcing ribs into the top surface of the first and second sheets of aluminum; and,
- b. a bottom die portion comprising a first and second tubular frame members joined together by a spacing member, said first and second tubular frame members having rounded edges so as to provide a smooth surface to the plurality of ribs.

16. The water craft as claimed in claim 15 wherein said rolling means comprises

- a. an upper fixed single roller mounted on a single first axis positioned above;
- b. a lower first and second adjacent rollers mounted on second and third axis, wherein said first, second and third axis are parallel and spaced apart by an adjustable distance (d), and wherein the first axis is spaced apart from the second and third axis by an adjustable distance (v) distance so that the diameter of the plurality of cylindrical pontoon members can be adjusted.